

## **ABSTRACT OF THE DISCLOURE**

A hex-axis horizontal movement dynamic simulator is aimed at Modular Design without hydraulic or pneumatic system but which were conventionally used in the so called Stewart Platform; this dynamic simulator comprises three sets of movement control unit with symmetrical structure located at the positions relative to each other forming three sides of an equilateral triangle, and a load-carrying platform which connected to the three movement control by means of three sets of universal-joint yoke mechanism each relative position located on the load-carrying platform are each other arranged to form as three sides of an equilateral triangle too; with this type of arrangement, this dynamic simulator have a 6-degree of freedom motion when a sets of movement control unit makes different rectilinear motion, the load-carrying platform will generate a combination of spatial translation motion and angular motion.